

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M115956
Date Received: 03/15/07
Date Extracted: 03/16/07
Date Analyzed: 03/16/07
Matrix: Water
Units: ug/L (ppb)

Client: Alaskan Copper Works
Project: PO# M115956, F&BI 703129
Lab ID: 703129-01 x10
Data File: 703129-01 x10.024
Instrument: ICPMS1
Operator: HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	254
Nickel	188
Copper	82.4
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M115956, F&BI 703129
Date Extracted:	03/16/07	Lab ID:	I7-94 mb
Date Analyzed:	03/16/07	Data File:	I7-94 mb.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	94	60	125
Bismuth	97	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/21/07

Date Received: 03/15/07

Project: Metro K.C. Grab, PO# M115956, F&BI 703129

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS BY EPA METHOD 200.8

Laboratory Code: 703115-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	<1	<1	nm	0-20
Nickel	ug/L (ppb)	5.85	5.63	4	0-20
Copper	ug/L (ppb)	<1	<1	nm	0-20
Zinc	ug/L (ppb)	17.2	18.1	5	0-20

Laboratory Code: 703115-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	<1	121	50-150
Nickel	ug/L (ppb)	20	5.85	120 b	50-150
Copper	ug/L (ppb)	20	<1	115	50-150
Zinc	ug/L (ppb)	50	17.2	126 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	119	70-130
Nickel	ug/L (ppb)	20	125	70-130
Copper	ug/L (ppb)	20	116	70-130
Zinc	ug/L (ppb)	50	119	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 21, 2007



INVOICE #07ACU0321-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro K.C. Grab, PO# M115956, F&BI 703129 - Results of testing
requested by Gerry Thompson for material submitted on March 15, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (1 day) 100% of \$80.00	<u>80.00</u>
Amount Due	\$ 160.00

FEDERAL TAX ID #(b) (6)

703129

SAMPLE CHAIN OF CUSTODY

ME 03/15/07

AID4

Send Report To

Company

Address

City, State, ZIP

Phone #

Gerald Thompson

Alaska Copper Works

628 S. Wardend St

Seattle WA 98134

206-571-6033 Fax # 206-382-4725

SAMPLER'S (signature)

PROJECT NAME/NO.

PO #

REMARKS

Metro K.C. Grate

M115956

Asap Phone Results

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	206-571-6033				
M115956	01	3/15/07	11:30	H2O	1											

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Received by:

Received by:

G. Thompson

Nhan Phan

Acw

FEBI

3/15/07

3/15/07

1:35pm

V

Samples received at 21 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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March 21, 2007

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 15, 2007 from the Metro K.C. Grab, PO# M115956, F&BI 703129 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0321R